

ABSTRACT

An object of the invention is to provide a coreless linear motor which can suppress the increase in the temperature of an armature winding.
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There is provided a coreless linear motor in which a slider (10) is made up of an armature winding (11) which comprises a plurality of coils (13) and a slider mounting table (12) which supports the armature winding (11), and a stator (1) is made up of permanent magnets
10 (2) which form a plurality of magnetic poles and back yokes 3, and, furthermore, in which both left and right sides of the armature winding (11) is sandwiched by the permanent magnets (2) via a gap, the coreless linear motor being characterized in that a concave portion (12a) is provided in a lower side of the slider mounting table (12), and in
15 that a coil upper side (14) which corresponds to an upper side of the coil (13) is inserted in the interior of the concave portion (12a) in the slider mounting table (12) and a space is provided in the vicinity of a coil lower side (15) which corresponds to a lower side of the coil (13) for performing a connecting process between the coils (13)
20 or the coil (13) and a lead wire (16).